



Air Test and Evaluation (VX-1)

Safety Brief

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19 July 2001

life

- *Struggling supervision*
- *Training imbalance*
- *Leadership*



- *3 out of 4 Sailors were killed off duty*
- *85% of mishaps associated with human error*



**Every five years
mishaps cost
the Navy**

\$4 BILLION

and

1,045 LIVES!

***213 Sailors and Marines
died in FY00***

All Navy/Marine Operational Class-A Mishap Rates (Aviation, Afloat, Shore)

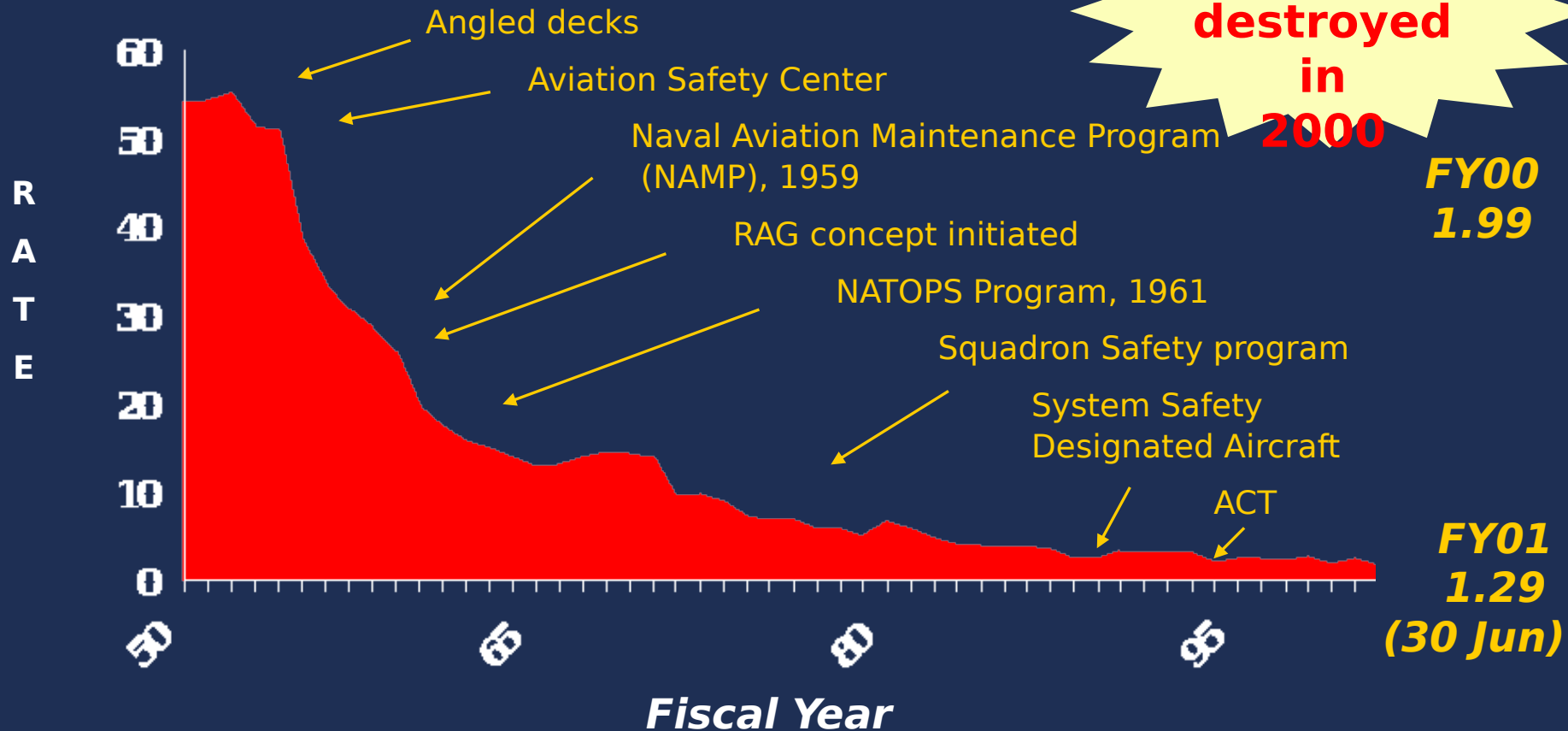


Naval Aviation Mishap Rates

**776 aircraft
destroyed in
1954**

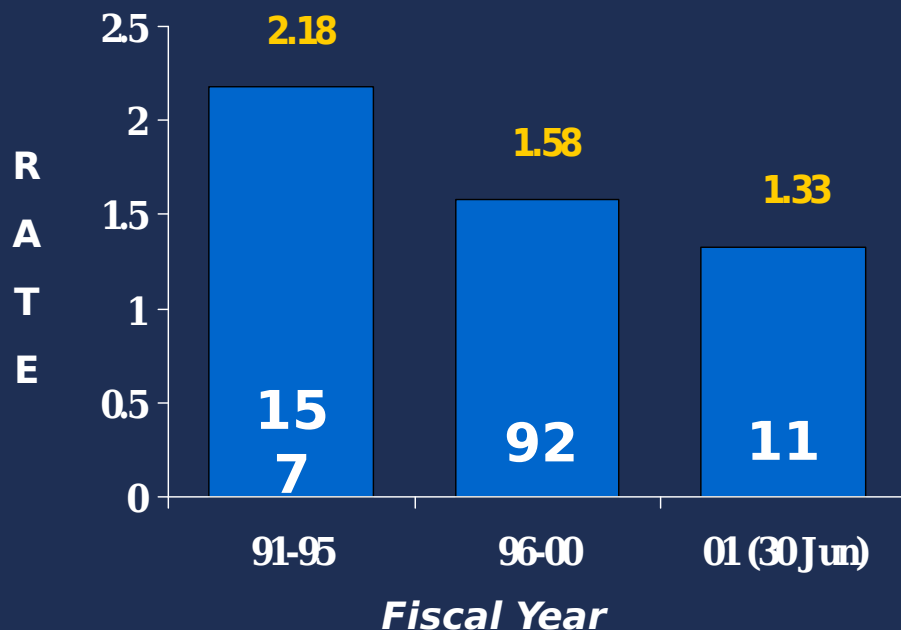
FY50-01

**24 aircraft
destroyed
in
2000**



Class-A Flight Mishap Rates

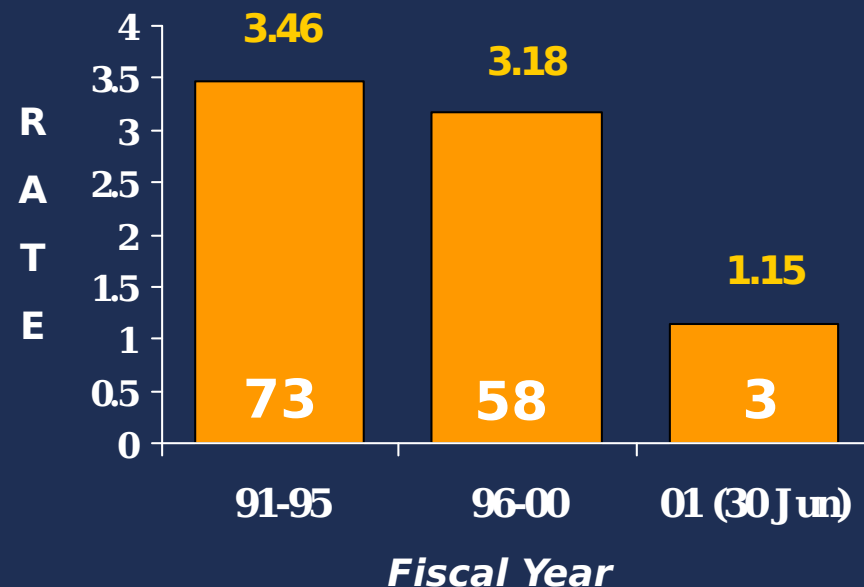
Navy



FY00 Navy Aviation Mishaps

**15 Aircraft Destroyed
19 Fatalities
\$405 Million**

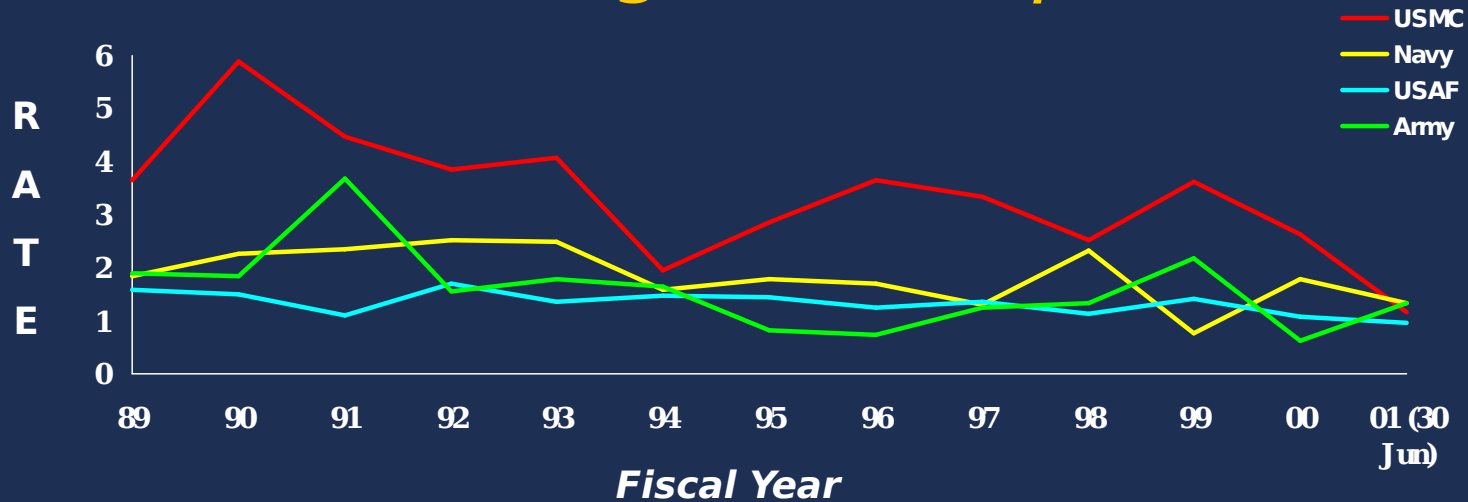
Marine



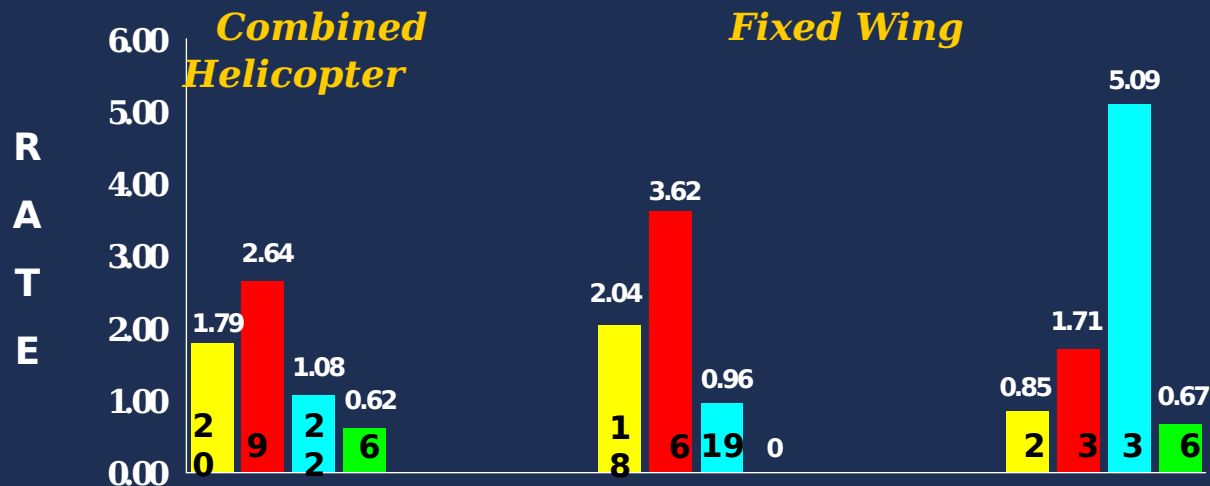
FY00 Marine Aviation Mishaps

**9 Aircraft Destroyed
29 Fatalities
\$303 Million**

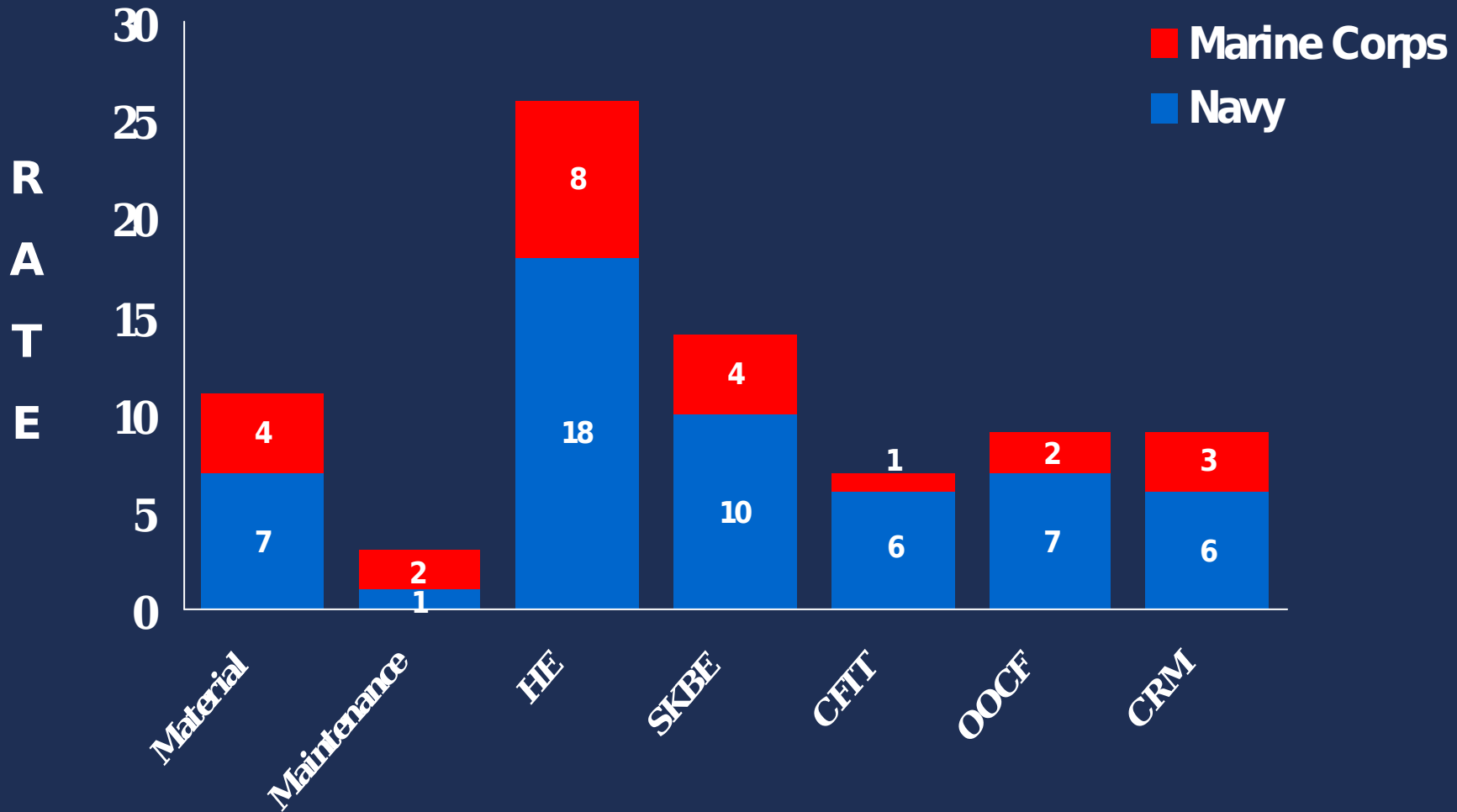
Class-A Flight Mishap Rates



Comparison of Mishap Rates FY00

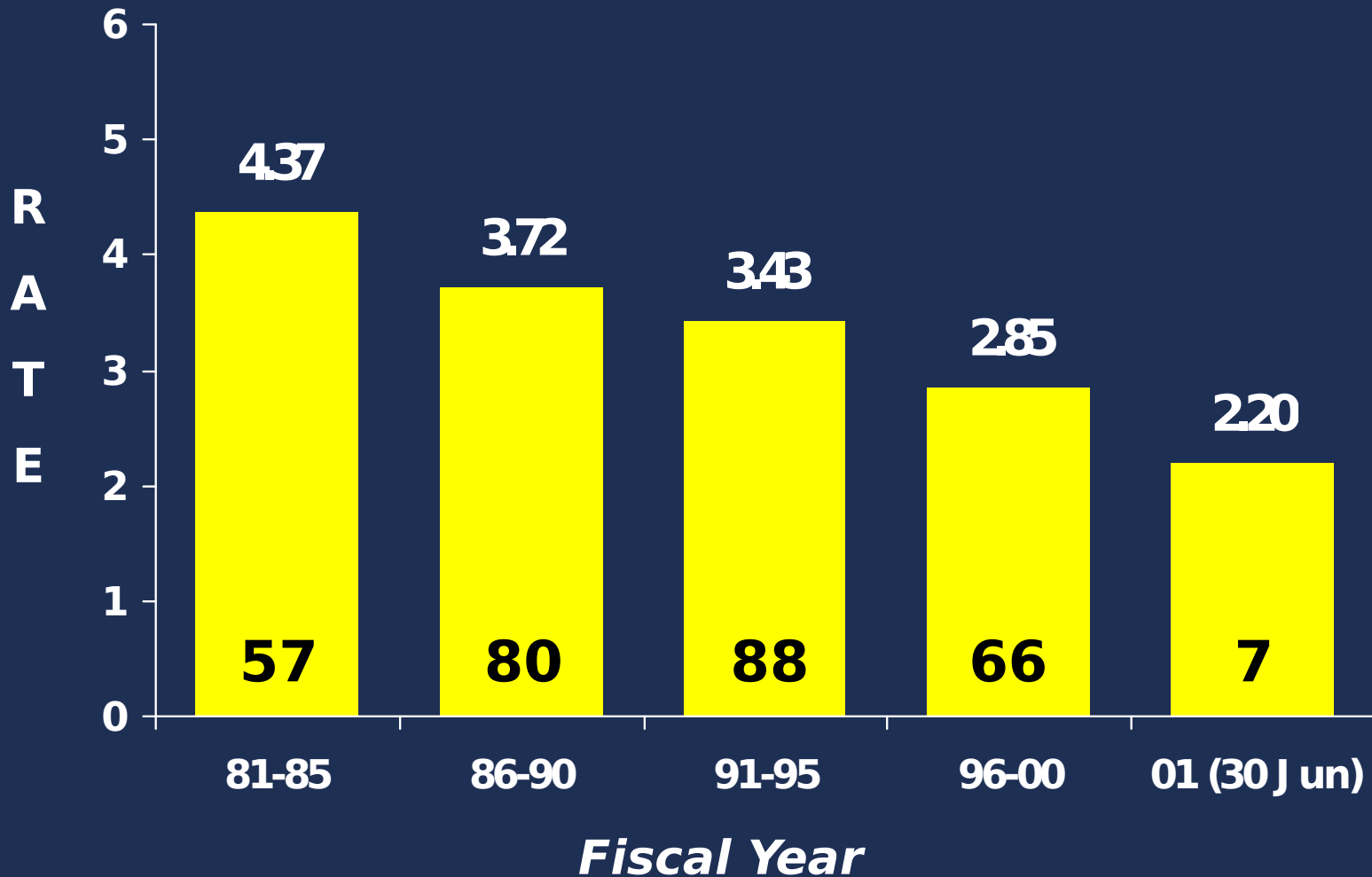


Navy/Marine Corps Mishap Causal Factors



FY 2000 Class-A Flight Mishaps

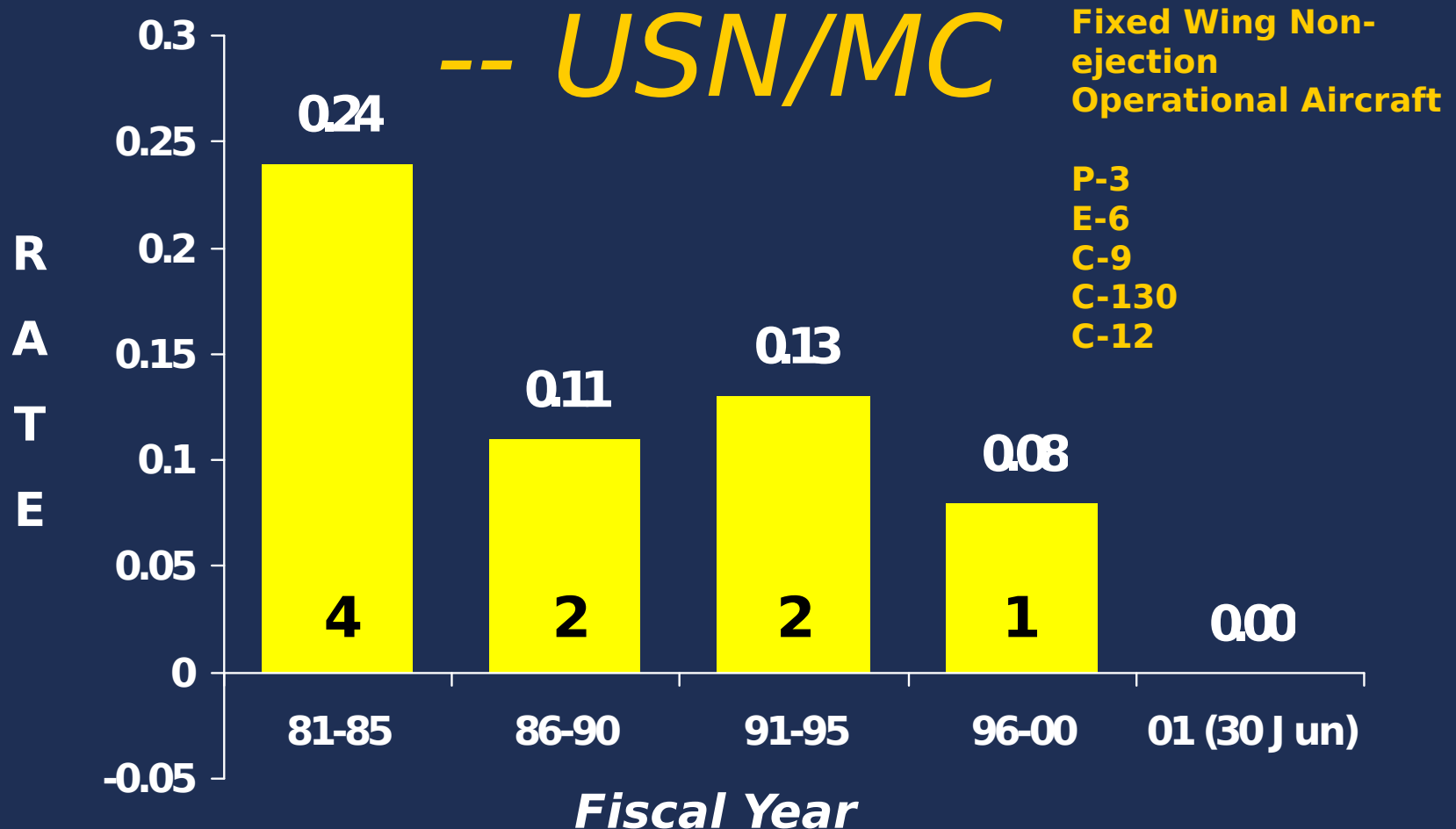
TAILHOOK Class A Flight Mishap Rates -- USN/MC



FTR/ATK vs. S-3



Fixed Wing Non-ejection Aircraft Class A Flight Mishap Rates



Fixed Wing (Non-ejection)

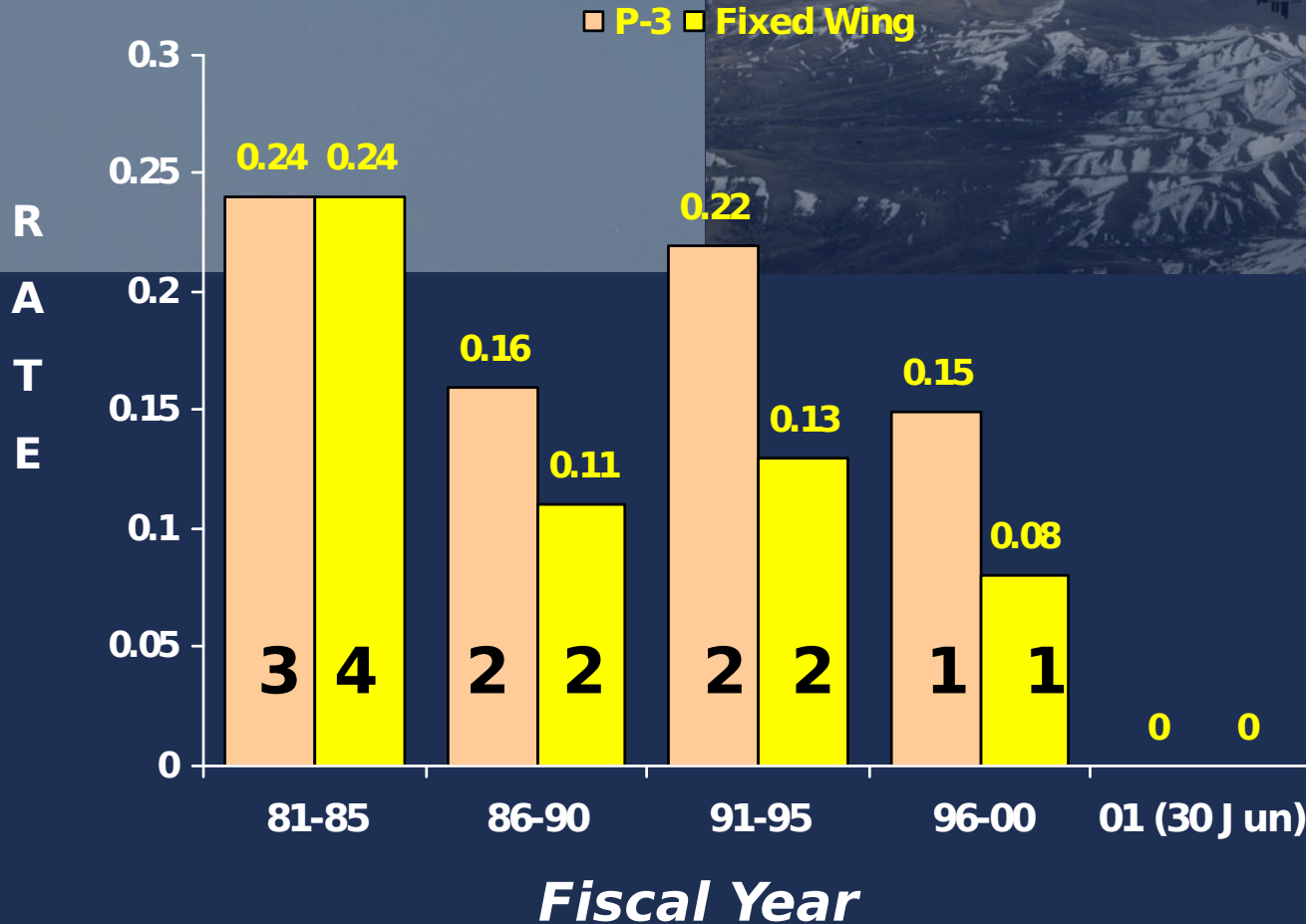


P-3

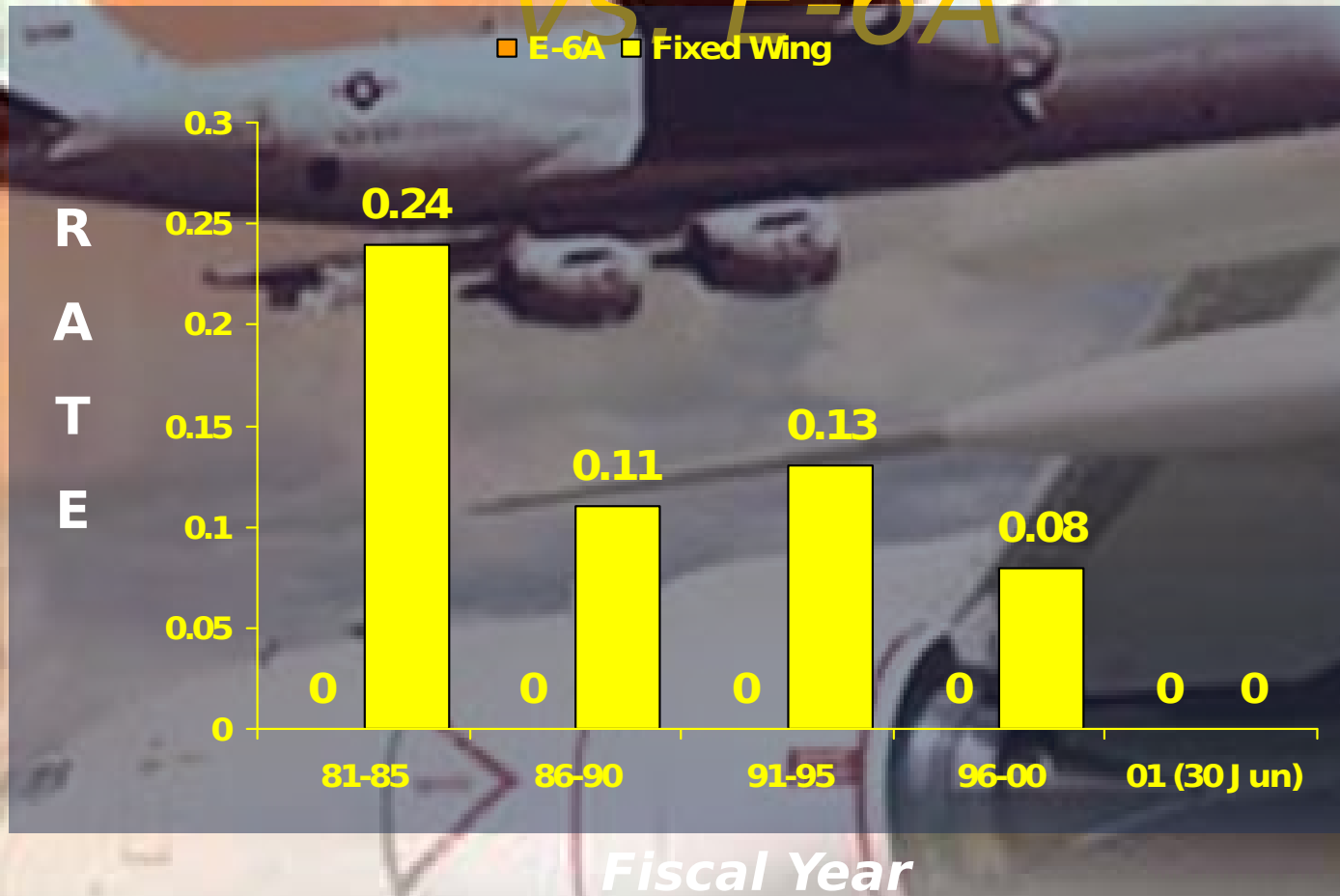
vs. P-3



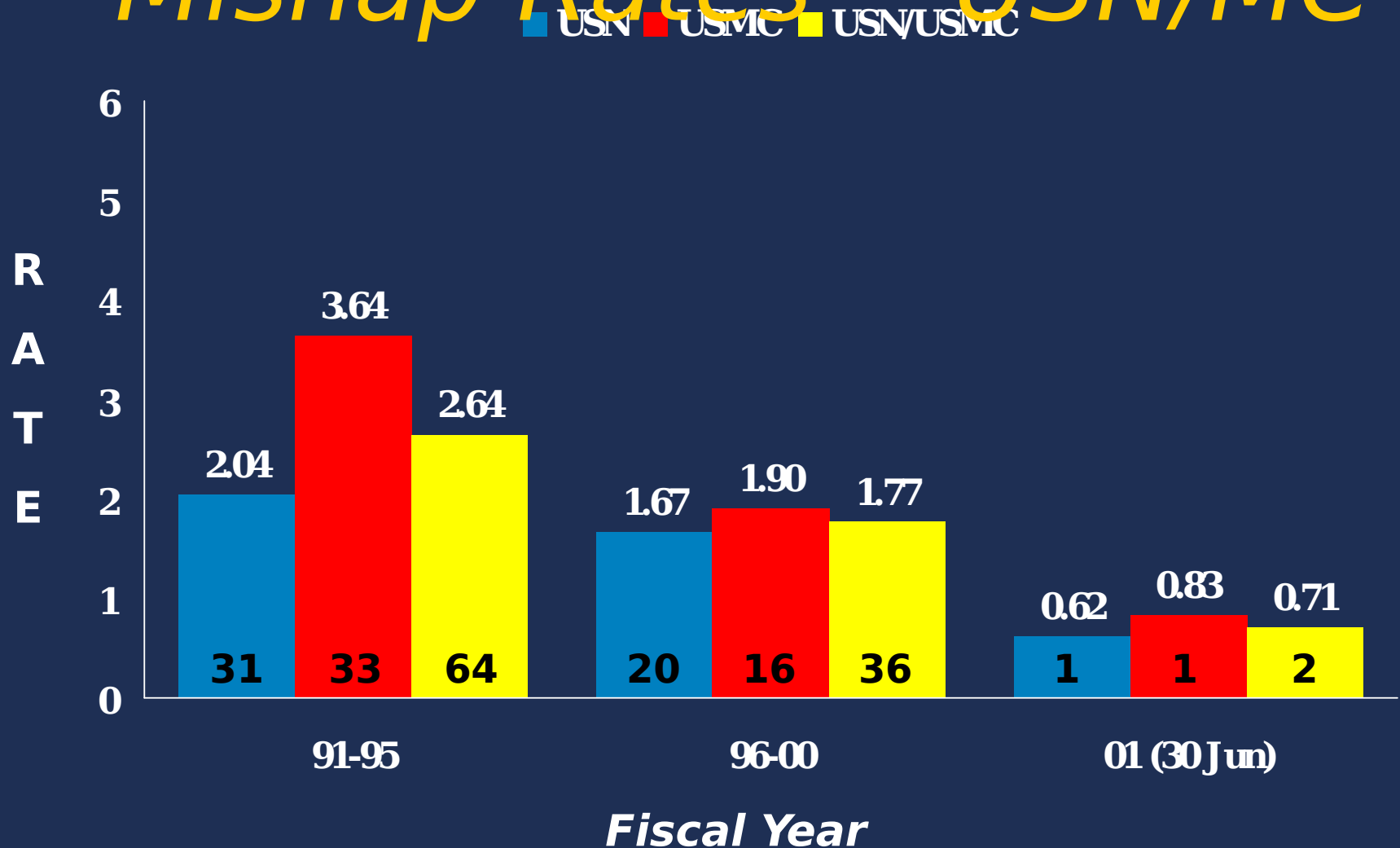
EP-3



Fixed Wing (Non-ejection) *vs F-6A*

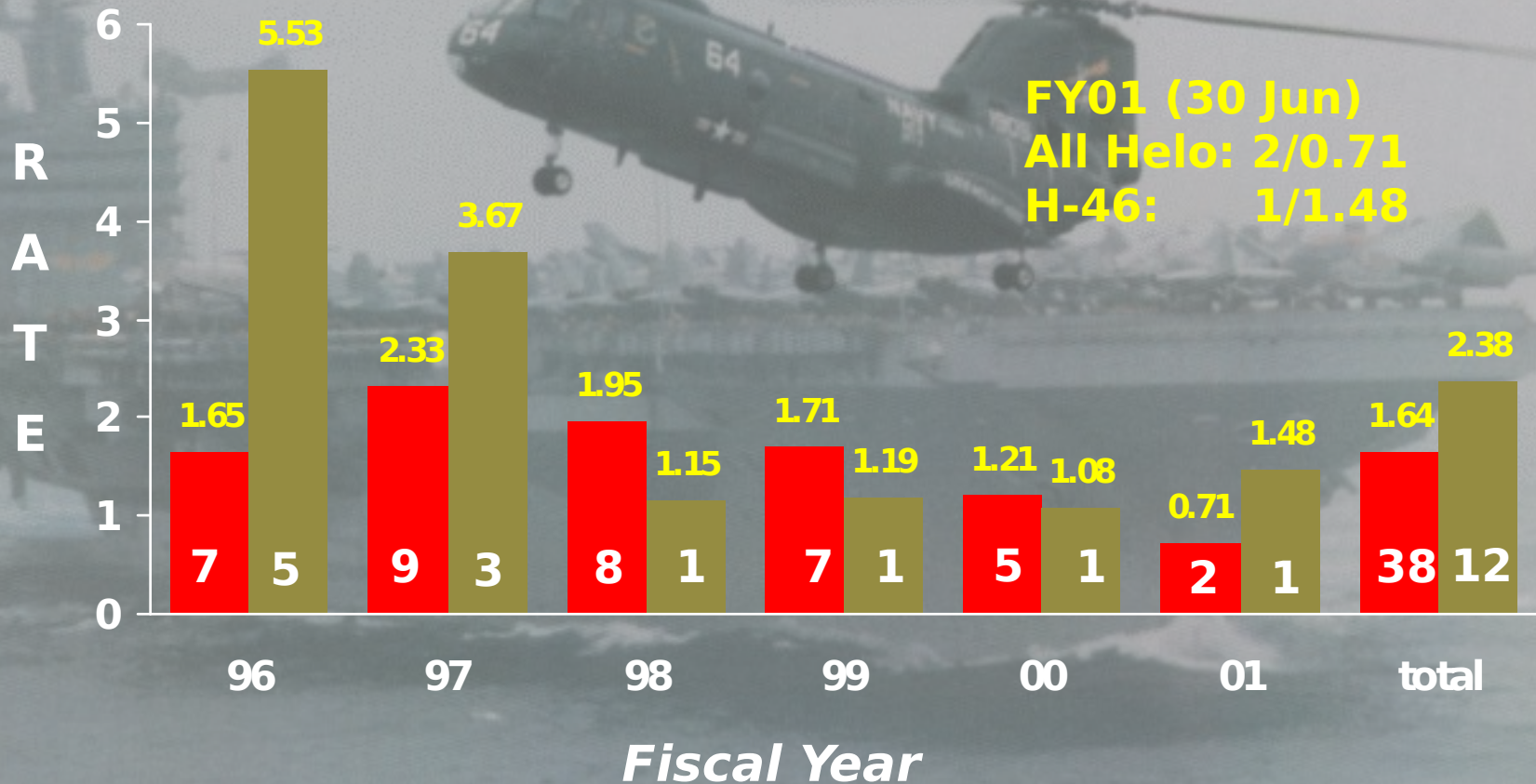


Helicopter Class-A Flight Mishap Rates -- USN/MC



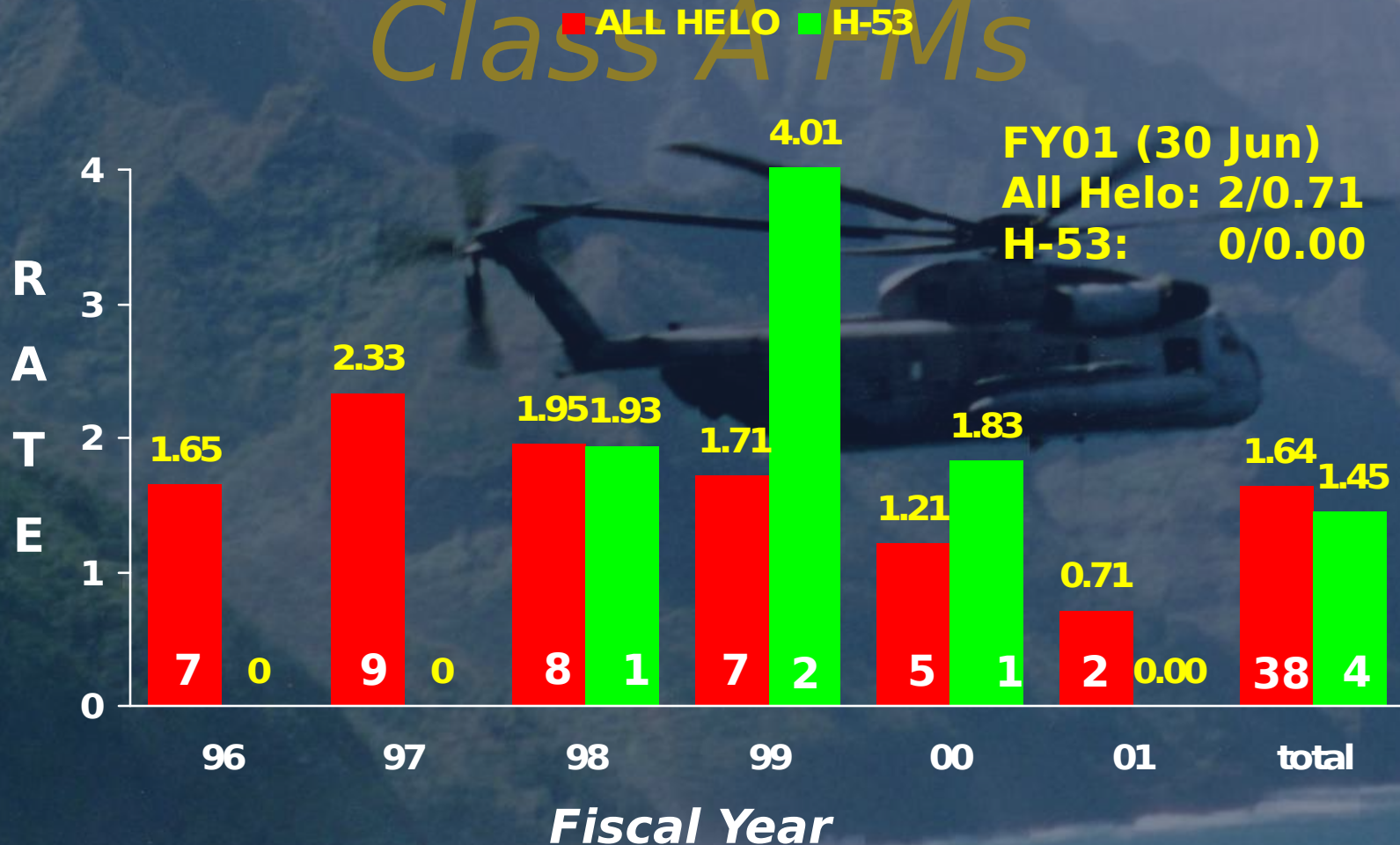
Navy-Marine Helicopters vs H-46

Class A FMs



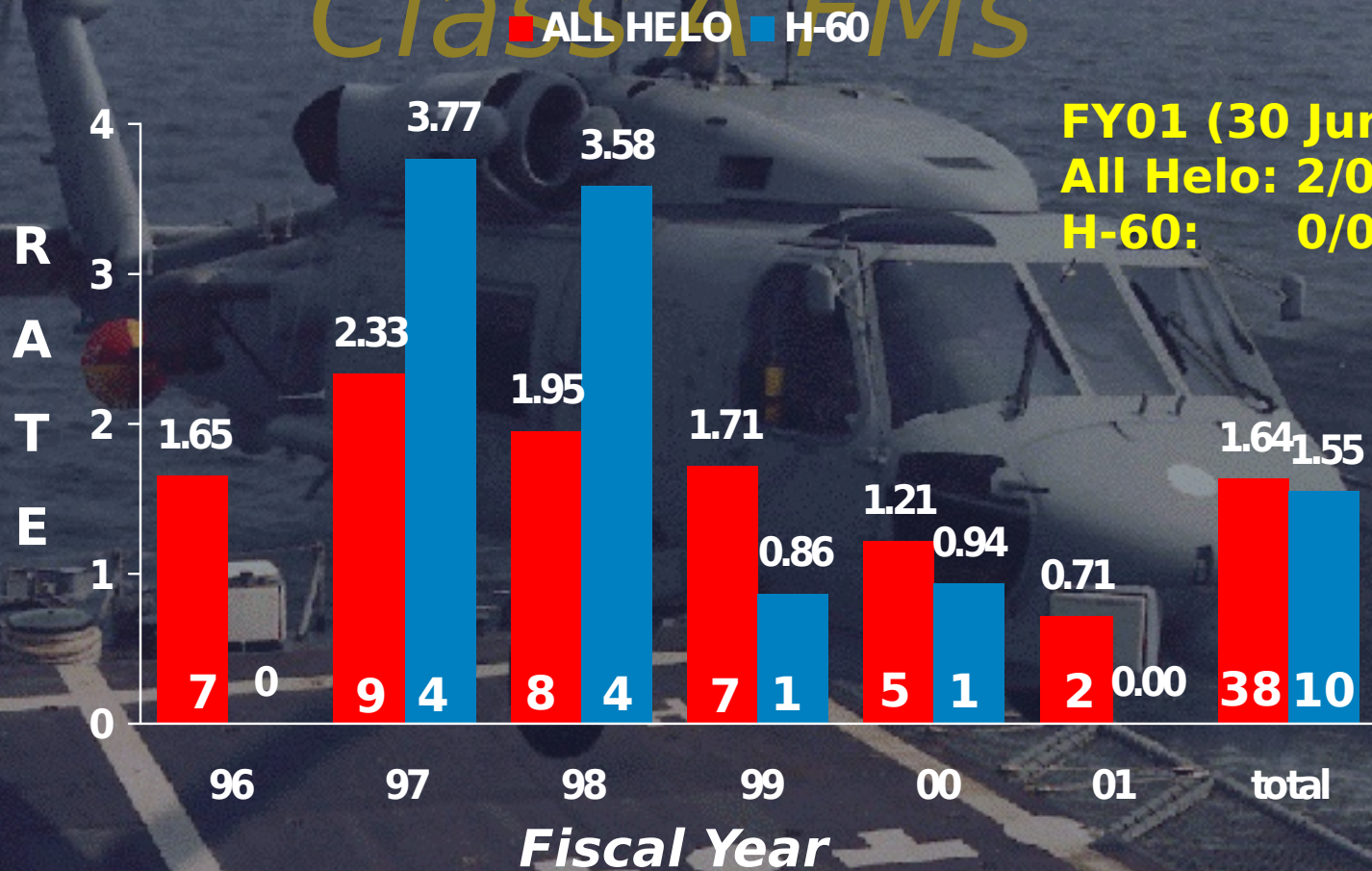
Navy-Marine Helicopters vs H-53

Class A FMs



Navy-Marine Helicopters vs H-60

Class A FMs

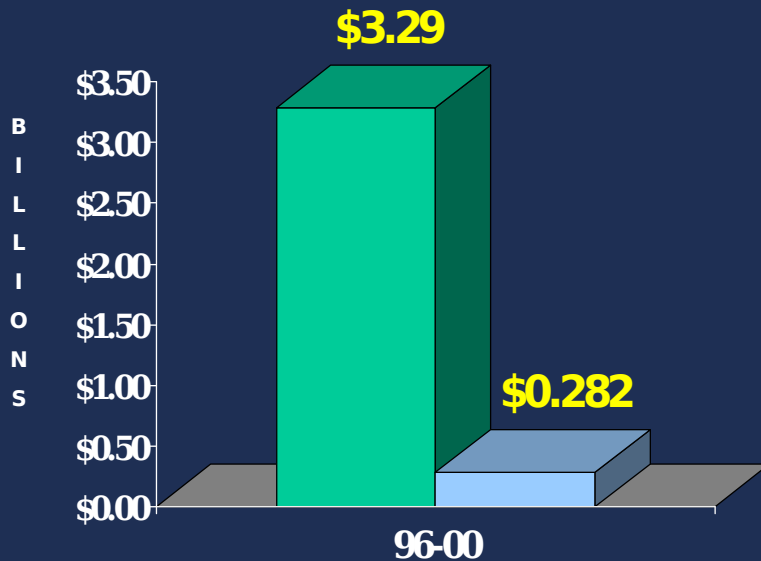


Aviation vs. PMV /Ground Operational

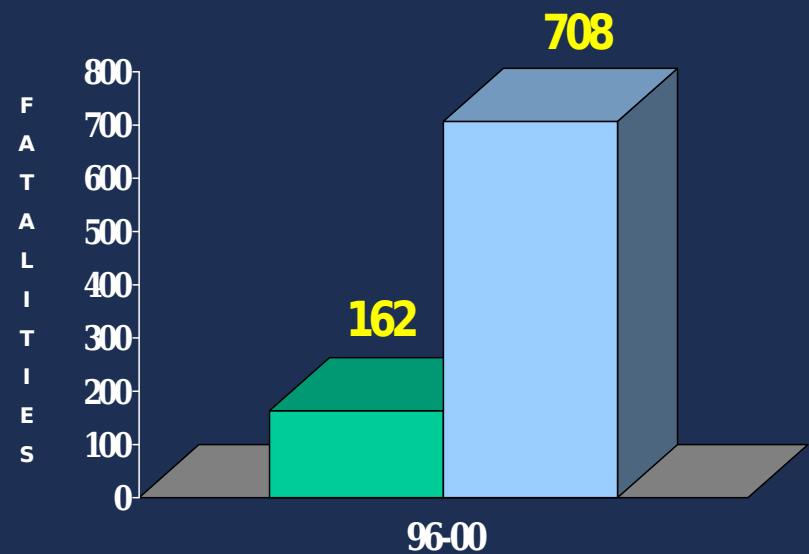
(Cost and Deaths FY96-00)

Cost Deaths

■ Aviation ■ PMV/Ground Operational

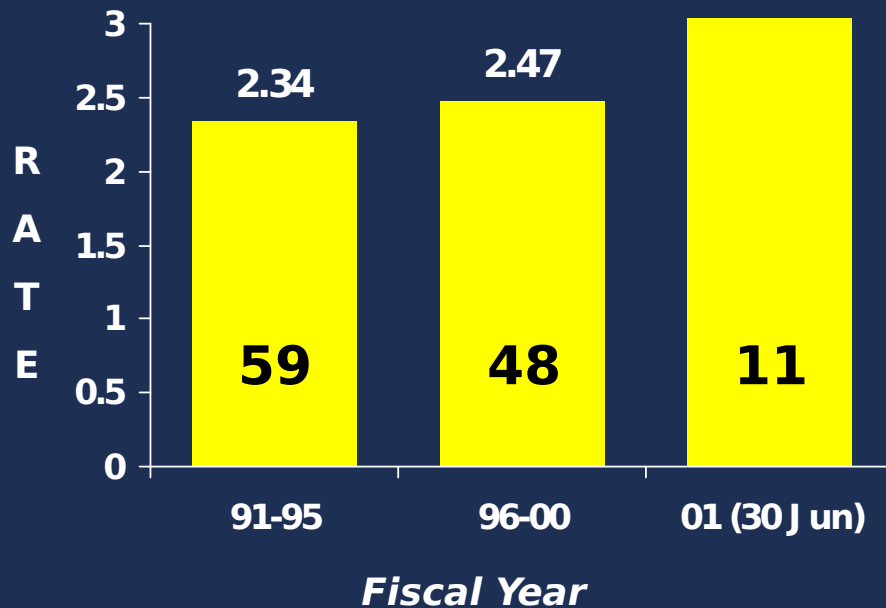


■ Aviation ■ PMV/Ground Operational



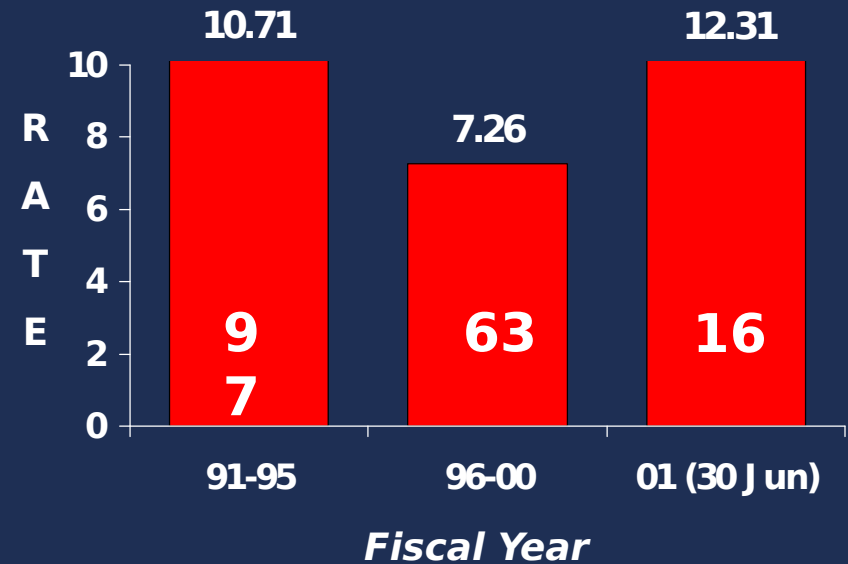
Navy/Marine Operational Class-A Mishap Rate

Navy Shore (Excluding MV\$MC Ground Operational)



FY00 - Navy

**5 Navy Military Fatalities
\$5M Cost**

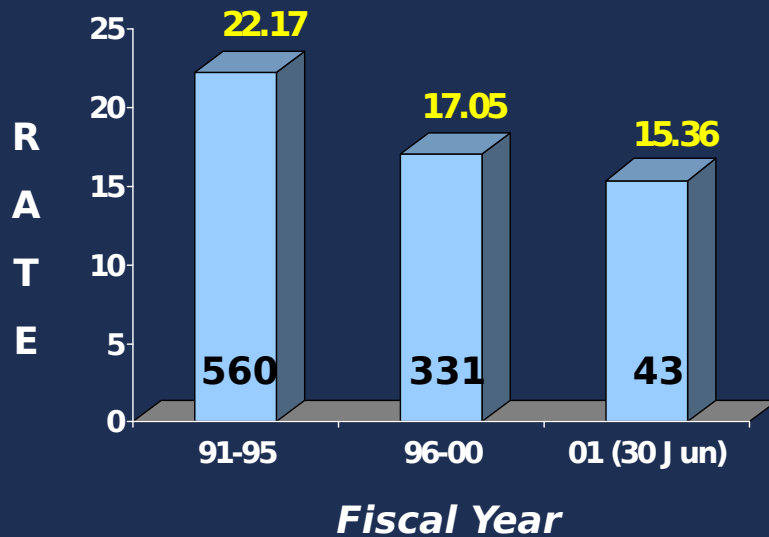


FY00 - Marine

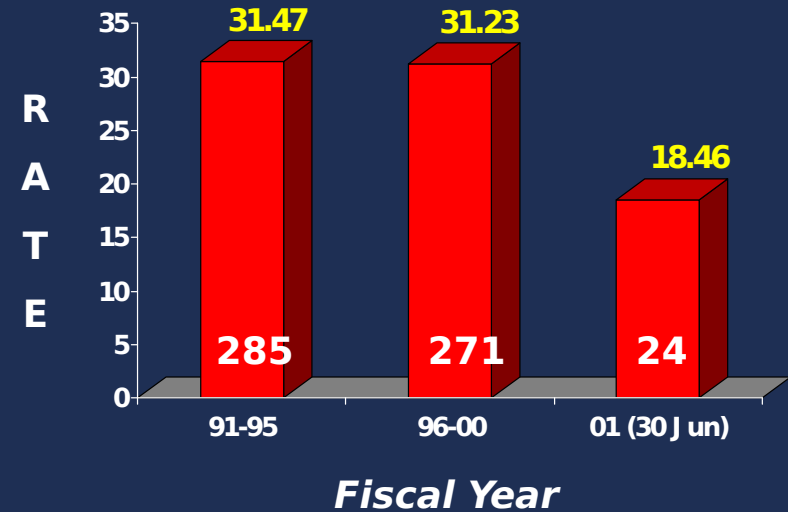
**11 Marine Military
Fatalities
\$9M Cost**

Navy/Marine PMV Fatality Rate

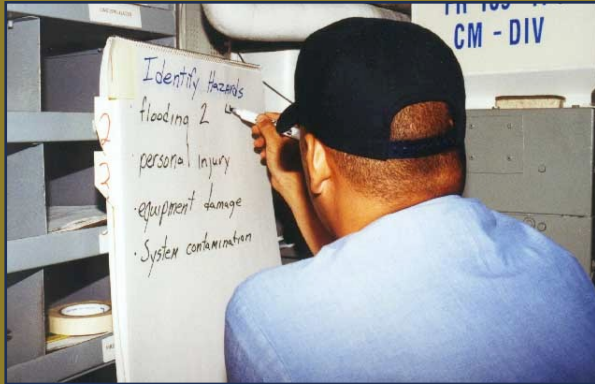
Navy



Marine Corps



Naval Safety Center Support *On the Road*



- **54 Cultural Workshops**
- **238 Unit surveys**
- **313 ORM unit training**
- **67 Mishap Investigations**
- **USMC MTT seminars**
- **PCOs briefed**



Awareness

- **26 magazines printed (473,000 copies)**
- **Interactive CD's**
- **Safety Center WEB page**
- **Acquisition process in-roads**

Safety Solutions

- **ORM**
- **Mentoring/Training**
- **Culture Standards**
- **Leadership**

Commitment

- **Technology**
- **Manning**
- **Checks and Balances**

The Bottom Line:

- *ORM still not a way of life*
- *Struggling supervision*
- *Training imbalance*
- *Leadership commitment?*



- *3 out of 4 Sailors were killed off duty*
- *85% of mishaps associated with human error*

Questions?



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